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CATHY A. KODROFF			CARTER, KENDRA D	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

-		Application No.	Applicant(s)	
		10/663,506	ASHRAF ET AL.	
Office Action Summary		Examiner	Art Unit	
	•	Kendra D. Carter	1617	
Period fo	The MAILING DATE of this communication apports.	pears on the cover sheet w	rith the correspondence address	
WHIC - Exte after - If NC - Failt Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Does not sone of time may be available under the provisions of 37 CFR 1.1 of SIX (6) MONTHS from the mailing date of this communication. Of period for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MO , cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on 25 Ju	uly 2007.		
		action is non-final.	•	
3)	Since this application is in condition for allowar	nce except for formal mat	iters, prosecution as to the merits is	
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Disposit	ion of Claims			
4)🛛	Claim(s) 1-6 and 10-20 is/are pending in the a	pplication.		
	4a) Of the above claim(s) is/are withdraw	•		
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) 1-6 and 10-20 is/are rejected.			
7)	Claim(s) is/are objected to			
8)[Claim(s) are subject to restriction and/o	r election requirement.		
Applicat	ion Papers			
9)	The specification is objected to by the Examine	er.		
•	The drawing(s) filed on is/are: a) accompany	·	by the Examiner.	
	Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the correct	ion is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).	
11)	The oath or declaration is objected to by the Ex	caminer. Note the attache	d Office Action or form PTO-152.	
Priority ι	under 35 U.S.C. § 119			
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
	1. Certified copies of the priority documents			
	2. Certified copies of the priority documents	· ·		
	3. Copies of the certified copies of the prior	•	received in this National Stage	
* 0	application from the International Bureau See the attached detailed Office action for a list		rossived	
	see the attached detailed Office action for a list	or the certified copies hot	receiveu.	
Attachmen		_		
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date	
3) 🔲 Infon	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date		Informal Patent Application	

DETAILED ACTION

The Examiner acknowledges the applicant's remarks and arguments of July 25, 2007 made to the office action filed May 3, 2007. Claims 1-6 and 10-20 are pending.

In light of the Applicant's arguments, the 35 USC 112, first paragraph is withdrawn.

For the reasons in the previous office action and below, the Applicant's arguments of the 35 USC 103(a) rejection of claims 1-6 and 10-20 as being unpatentable by Azrolan et al. (US 2002/0013335 A1) in view of Haeberlin et al. (GB 23276111 A), and in further view of Madhavi et al. (Food Antioxidants: Technological, Toxicological, and Health Perspectives, Decker, 1996), were found not persuasive, thus the rejection is upheld.

The Applicant's arguments of the nonstatutory provisional obviousness-type double patenting rejection of claims 1, 2, and 4-6 as being unpatentable over claims 55, 58-61, 65, and 72-73 of copending Application No. 10/930,487 in view of Azrolan et al. (US 2002/0013335 A1) were found not persuasive, and thus the rejection is upheld.

The Applicant's arguments of the nonstatutory provisional obviousness-type double patenting rejection of claims 1, 2, and 4-6 as being unpatentable over claims 1, 7-8 and 11 of copending Application No. 11/030,685 in view of Azrolan et al. (US 2002/0013335 A1) were found not persuasive, and thus the rejection is upheld.

The Applicant's arguments of the nonstatutory provisional obviousness-type double patenting rejection of claims 1, 2, 4 and 6 as being unpatentable over claims 12-16 and 19 of copending Application No. 10/626,943 were found not persuasive, and thus the rejection is upheld.

Due to no new amendments to the claims and the Applicant's arguments were found not persuasive the previously made 35 USC 103(a) and obviousness-type double patenting rejections are provided below for convenience.

The Applicant's arguments are addressed below.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed

in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under

Claims 1-6 and 10-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Azrolan et al. (US 2002/0013335 A1) in view of Haeberlin, et al. (GB 2327611 A) and in further view of Madhavi et al. (Food Antioxidants: Technological, Toxicological, and Health Perspectives, Decker, 1996).

35 U.S.C. 103(a). See MPEP § 706.02(I)(1) and § 706.02(I)(2).

Azrolan et al. teaches oral formulations of 42-ester with 3-hydroxy-2-(hydroxymethyl)-2-methylpropionic acid (see claim 5 and page 4, column 1, paragraph 26, lines 1-2) comprising for useful tablet formulations sodium lauryl sulfate, polyvinylpyrrolidone, poloxamer 188, sodium dodecyl sulfate, sodium citrate, and a dry granulation (see page 4, column 1, paragraph 26, lines 10-12, 16-18, 25, column 2, line 1). For suspensions as a free base or pharmacologically acceptable salt hydroxylpropyl-cellulose is used (see page 4, column 2, paragraph 28, lines 2-6). For sterile powders, polyethylene glycol, water, ethanol, and vegetable oils are used (see page 4, column 2, paragraph 29, lines 2-4 and 10-12). Under ordinary conditions of storage and

use, the preparation contains a preservative to prevent the growth of microorganisms (see page 4, paragraph 28, lines 8-10).

In regards to claims 10-12 and 15-17, "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985), see also MPEP § 2113.

Azrolan et al. does not teach the specific wordage "water soluble polymer" or "pH modifying agent". Additionally, the ranges of the water soluble polymer, surfactant and antioxidant are not disclosed (claims 1, 10, 15, and 20). Azrolan et al. also does not teach the specific antioxidant butylated hydroxyanisole or butylated hydroxytoluene (claims 13 and 18), nor citric acid (claim 20).

Haeberlin, et al. teaches the use of various carboxylic acids to stabilize (i.e. preserve) oral and parenteral formulations of macrolides, preferably a rapamycin (see abstract). The preferred acids include malonic acid, oxalic acid, citric acid, and lactic acid, and a 0.05% to 5% acid concentration range (which encompasses the instant invention citric acid concentration specification) with further disclosure that the preferred

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is taught.

Madhavi et al. teaches that BHA is perhaps the most extensively used antioxidant in food industry (see page 277, section 5.2.2, first paragraph, lines 1-2, for example). The absorption and metabolism of BHA has been studied in rats, rabbits, dogs, monkeys, and humans. BHA was rapidly absorbed from the gastrointestinal tract in rats, rabbits, dogs, and humans, rapidly metabolized and completely excreted (see page 278, toxicological studies, lines 1-4, for example). BHT is another antioxidant used extensively in the food industry and is widely used in combination with other antioxidants such as BHA, propyl galate and citric acid (antioxidants disclosed on page 4 of the applicant's specification as acceptable antioxidants), see page 283, paragraph three, butylated hydroxytoluene, lines 1-4.

Although sodium citrate, sodium lauryl sulfate, sodium dodecyl sulfate, poloxamer, polyvinylpyrrolidone (PVP), polyethylene glycols, and hydroxyl-propyl-cellulose are not disclosed as water soluble polymers, surfactants, or pH modifying agents, a chemical composition and its properties are inseparable. "Products of identical chemical composition can not have mutually exclusive properties." Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 911 F. 2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

In regards to the range of the antioxidant, water soluble polymer and surfactant in the composition, it is within the skill of the art to adjust concentrations to obtain desired characteristics. Since there are no reasons disclosed why the particular range of 0.001% to 3%, about 1% to about 40%, and about 1% to about 8% gives results that produce unexpected results, then the ranges of the antioxidant, water soluble polymer and surfactant are obvious to one skilled in the art to obtain. It is the normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages. See In re Boesch, 617 F.2d 272, 276, 205 USPQ 215, 219 (CCPA 1980) ("[D]iscovery of an optimum value of the result effective variable in a known process is ordinarily within the skill of the art." See, e.g., In re Baird, 16 F.3d 380, 29 USPQ2d 1550 (Fed. Cir. 1994); In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In re Paterson Appeal No. 02-1189 (Fed. Cir. January 8, 2003).

One having ordinary skill in the art at the time the invention was made would have found it obvious and motivated to formulate a composition of Azrolan et al. and the specific antioxidant butylated hydroxyanisole or butylated hydroxytoluene because Madhavi et al. teaches that BHA and BHT are extensively used antioxidants that are rapidly absorbed from the gastrointestinal tract, metabolized and completely excreted in humans (see page 277, section 5.2.2, paragraph 1, lines 1-2 and page 283, paragraph 3, butylated hydroxytoluene, lines 1-4).

One having ordinary skill in the art at the time the invention was made would have found it obvious and motivated to formulate a composition of Azrolan et al. and citric acid because Haeberlin, et al. teaches the use of various carboxylic acids to stabilize (i.e. preserve) oral and parenteral formulations of macrolides, preferably a rapamycin (see abstract). The preferred acids include malonic acid, oxalic acid, citric acid, and lactic acid in the concentration range of 0.05% to 5% (which encompasses the instant invention citric acid concentration specification) and further discloses that the preferred amount of acid may be determined by routine experimentation (see page 4, lines 15-26). Additionally, Azrolan et al. teaches that under ordinary conditions of storage and use, the preparation contains a preservative to prevent the growth of microorganisms (see page 4, paragraph 28, lines 8-10). Since, CCI-779 is a derivative of rapamycin as well as a macrolide, one of ordinary skill in the art would reasonably expect citric acid to stabilize (i.e. preserve) the composition.

The motivation for a composition comprising PVP and sodium lauryl sulfate or sodium dodecyl sulfate is because Azrolan et al. teaches that these components are useful for making tablets (see page 4, column 1, paragraph 26, line 10), suspensions (see page 4, column 2, paragraph 28, line 3), and sterile powders (see page 4, column 2, paragraph 29, lines 2-4). It would be beneficial for the applicant's composition to be made in to a tablet, suspension or sterile powder for use as a medicament. In addition, Rubino et al. states that one of skill in the art may readily select other suitable

surfactants (see page 2, column 2, paragraph 21, lines 7-8). Thus, a suitable surfactant and water soluble polymer is chosen based on the type of appearance (i.e. powder, suspension, tablet) or potential use that one of ordinary skill in the art wants to make.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

(1) Claims 1, 2-6, and 20 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 55, 58-61, 65, and 72-73 of copending Application No. 10/930,487 in view of

Azrolan et al. (US 2002/0013335 A1). This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Although the conflicting claims are not identical, they are not patentably distinct from each other for the following reasons.

The U.S. Application 10/930,487 teaches a composition comprising an amorphous form of rapamycin 42-ester with 3-hydroxy-2-(hydroxymethyl)-2methylpropionic acid, comprising: a metal chelator, a pH adjuster, a surfactant, at least one filler, a binder, a disintegrant, and a lubricant (see claim 55). The pH adjuster comprises citric acid, ascorbic acid, fumaric acid or malic acid (see claims 58-59). The surfactant is selected from a polysorbate, a sorbitan ester, poloxamer, or sodium lauryl 60 The sulfate (see claims and 61). binder comprises providone, hydroxypropylmethylcellulose, carboxymethylcellulose or gelatin (see claim 65). The composition is dry or wet granulated (see claims 72 and 73), and can be in the form of a tablet (see claim 74).

The U.S. Application 10/930,487 does not teach the specific wordage "water soluble polymer" or "antioxidant", wherein the antioxidant is from 0.001% to 3% (wt/wt). Additionally, the ranges of the water soluble polymer and surfactant are not disclosed, or the use of polyvinylpyrrolidone.

Azrolan et al. teaches oral formulations of 42-ester with 3-hydroxy-2-(hydroxymethyl)-2-methylpropionic acid (see claim 5 and page 4, column 1, paragraph 26, lines 1-2) comprising for useful tablet formulations sodium lauryl sulfate, polyvinylpyrrolidone, poloxamer 188, sodium dodecyl sulfate, and wet or dry granulation (see page 4, column 1, paragraph 26, lines 10, 11, 16-18, 25, column 2, line 1). For suspensions as a free base or pharmacologically acceptable salt hydroxyl-propyl-cellulose is used (see page 4, column 2, paragraph 28, lines 2-6). For sterile aqueous solutions or dispersions and sterile powders, polyethylene glycol, water, ethanol, and vegetable oils are used (see page 4, column 2, paragraph 29, lines 2-4 and 10-12).

One having ordinary skill in the art would find it obvious to formulate a pharmaceutical composition comprising a water soluble polymer and an antioxidant according to 10/930,487 because hydroxypropylmethylcellulose (see claim 72) is a water soluble polymer and ascorbic acid (see claim 58) is an antioxidant. "Products of identical chemical composition can not have mutually exclusive properties." A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 911 F. 2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

In regards to the range of the antioxidant, water soluble polymer and surfactant in the composition, it is within the skill of the art to adjust concentrations to obtain desired

Since there are no reasons disclosed why the particular range of characteristics. 0.001% to 3%, about 1% to about 40%, and about 1% to about 8% gives results that produce unexpected results, then the ranges of the antioxidant, water soluble polymer and surfactant are obvious to one skilled in the art to obtain.

One having ordinary skill in the art would find it obvious to formulate a pharmaceutical composition comprising polyvinylpyrrolidone (PVP) because Azrolan et al. teaches a composition comprising 42-ester with 3-hydroxy-2-(hydroxymethyl)-2methylpropionic acid (see claim 5 and page 4, column 1, paragraph 26, lines 1-2) comprising for useful tablet formulations polyvinylpyrrolidone (see page 4, column 1, paragraph 26, lines 10, 11, 16-18, 25, column 2, line 1). Thus, the specific water soluble polymer, PVP, has been taught in combination with the Applicant's compound in a solid preparation.

Claims 1, 2-6, and 20 are provisionally rejected on the ground of **(2)** nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 7-8 and 11 of copending Application No. 11/030,685 in view of Azrolan et al. (US 2002/0013335 A1). This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Although the conflicting claims are not identical, they are not patentably distinct from each other for the following reasons.

The U.S. Application 11/030,685 teaches a composition comprising micronized CCI-779, surfactant, filler/binder, disintegrant (see claims 1 and 7), one or more antioxidants, a chelating agent, and/or a pH modifier (see claim 11). The surfactant is sodium lauryl sulfate (see claim 8). An oral CCI-779 dosing unit comprises citric acid at 0.08% w/w, BHT at 0.05% w/w, BHA at 0.022% w/w (see claim 23), and 2% w/w hydroxypropylmethylcellulose (see claim 26). The dosing unit is selected from the group consisting of a tablet and a capsule (see claim 27).

The U.S. Application 11/030,685 does not teach the specific wordage "water soluble polymer" or a composition comprising a granulation. Additionally, the specific water soluble polymer, polyvinylpyrrolidone (PVP) and its amounts are not disclosed.

One having ordinary skill in the art would find it obvious to formulate a pharmaceutical composition comprising a water soluble polymer and a composition comprising a granulation according to 11/030,685 because hydroxypropylmethylcellulose (see claim 26) is a water soluble polymer and the composition is in granular form due to formation of a tablet (see claim 27). "Products of identical chemical composition can not have mutually exclusive properties." A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are

necessarily present. *In re Spada*, 911 F. 2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

One having ordinary skill in the art would find it obvious to formulate a pharmaceutical composition comprising polyvinylpyrrolidone (PVP) because Azrolan et al. teaches a composition comprising 42-ester with 3-hydroxy-2-(hydroxymethyl)-2-methylpropionic acid (see claim 5 and page 4, column 1, paragraph 26, lines 1-2) comprising for useful tablet formulations polyvinylpyrrolidone (see page 4, column 1, paragraph 26, lines 10, 11, 16-18, 25, column 2, line 1). Thus, the specific water soluble polymer, PVP, has been taught in combination with the Applicant's compound in a solid preparation.

In regards to the range of the PVP, it is within the skill of the art to adjust concentrations to obtain desired characteristics. Additionally, the water soluble polymer, hydroxypropylmethylcellulose is in the composition in about 2% w/w (see claim 26). Thus, it would be obvious to comprise the composition with the same amounts of a different water soluble polymer. Since there are no reasons disclosed why the particular range of about 5% to about 20% wt/wt gives results that produce unexpected results, then the ranges of the water soluble polymer are obvious to one skilled in the art to obtain.

(3) Claims 1, 2, 4, and 6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 12-16 and 19 of copending Application No. 10/626,943. This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Although the conflicting claims are not identical, they are not patentably distinct from each other for the following reasons.

The U.S. Application 10/626,943 teaches a parenteral formulation (see claim 12) which comprises an antioxidant, propylene glycol (see claim 15), citric acid (see claim 14), a surfactant (see claim 12), ethoxylated vegetable oil, and polyoxyethylene-polyoxypropylene block copolymers (see claim 16). The antioxidant comprises from about 0.0005 to 0.5% w/v of the formulation.

The U.S. Application 10/626,943 discloses range of the antibiotic is w/v, whereas the applicant discloses the antibiotic range in wt/wt. The different measurements are viewed as the same to one ordinarily skilled in the art. The w/v measurements are taken in regards to the co-solvent concentrate, which is water (see claim 15). Since water has a density of 1 g/mL, and the weight of the applicant's composition is taken as a whole (i.e. 1), then the measurements are virtually the same.

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The U.S. Application 11/030,685 does not teach the specific wordage "water soluble polymer" or a composition comprising a solid granulation. Additionally, the ranges of the water soluble polymer and surfactant are not disclosed.

Although citric acid is disclosed as an antibiotic and polyethylene glycol is disclosed as a dilute solvent, a chemical composition and its properties are inseparable. "Products of identical chemical composition can not have mutually exclusive properties." Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. *In re Spada*, 911 F. 2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990).

In regards to the range of the water soluble polymer and surfactant in the composition, it is within the skill of the art to adjust concentrations to obtain desired characteristics. Since there are no reasons disclosed why the particular range of about 1% to about 40%, and about 1% to about 8% gives results that produce unexpected results, then the ranges of the antioxidant, water soluble polymer and surfactant are obvious to one skilled in the art to obtain.

One having ordinary skill in the art would find it obvious to formulate a pharmaceutical composition comprising a solid granulation because it is a species of the genus parental formulation (see claim 12). In other words, a parental formulation can be in a solid granulation and since there are no reasons disclosed why the solid

granulation form gives results that produce unexpected results, then the solid granulation form is obvious to one skilled in the art to obtain.

Response to Arguments

Applicant's arguments filed July 25, 2007 have been fully considered but they are not persuasive.

Claims 1-6 and 10-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Azrolan et al. in view of Haeberlin, et al. and in further view of Madhavi et al.

The Applicant argues that none of the cited references would lead one of skill in the art to the solid CCI-779 compositions presently claimed. None of these documents recognizes the problem to which the present invention is directed. The Examiner has not provided any motivation to combine these documents to arrive to the claims presently pending other then through hindsight. The Examiner's assertion that one would combine Azrolan with Madhavi because BHA and BHT are extensively used antioxidants fails to supply any actual reason to combine. Similarly, that Haeberlin describes the use of acids to stabilize macrolides does not itself supply any motivation to combine with Azrolan. Even if combined, the determination of what percentage of each component to include in the composition could not be derived from these documents, contrary to the Examiner's position on page 8 of the previous office action filed, because it is inventive selection of components and amounts of same in order to solve the problems identified by the Applicant.

The Examiner disagrees because first, the motivation to combine the elements of the composition does not have be the same as the Examiner's reasons to combine. In regards to the obviousness to combine the prior art references, such as a specific

suggestion or teaching in the cited references, the KSR forecloses the argument that a specific teaching, suggestion, or motivation is required to support a finding of obviousness. See the recent Board decision EX parte Smith, --USPQ2d--, slip op. at 20, (Bd. Pat. App & Interf. June 25, 2007) (citing KSR, 82 USPQ2d at 1396) (available http://www.uspto.gov/web/offices/dcom/bpai/prec/fd071925.pdf). Nevertheless, at reasons for motivation were given in the previous office action and repeated by the Applicant above. In regards to the amounts, it is noted that "[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955.) In regards to hindsight, In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See In re McLaughlin, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

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Double Patenting

Claims 1, 2-6, and 20 are provisionally rejected on the ground of nonstatutory

obviousness-type double patenting as being unpatentable over claims 55, 58-61, 65,

and 72-73 of copending Application No. 10/930,487 in view of Azrolan et al. (US

2002/0013335 A1).

The Applicant argues that Application 10/930,487 claims are drawn to formulations containing amorphous CCI-779 and Azrolan describes

methods of treating cardiovascular disease with rapamycin which may include CCI-779, and includes general information regarding excipients useful in the formulation is provided. There is no motivation to combine

Azrolan with copending Application 10/930,487. In contrast, the present

application contains claims to CCI-779 with the specified excipents.

The Examiner disagrees because Azrolan et al. teaches oral formulations of 42-

ester with 3-hydroxy-2-(hydroxymethyl)-2-methylpropionic acid (see claim 5 and page 4,

column 1, paragraph 26, lines 1-2), which reads on all forms of CCI-779. Additionally,

the presently rejected claims do not limit the form of CCI-779, thus the claims read on

all forms of the compound. The Applicant's specified excipents are rendered obvious as

discussed in the previous office action and above.

Claims 1, 2-6, and 20 are provisionally rejected on the ground of nonstatutory

obviousness-type double patenting as being unpatentable over claims 1, 7-8 and 11 of

copending Application No. 11/030,685 in view of Azrolan et al. (US 2002/0013335 A1).

The Applicant argues that Application 10/930,487 claims are drawn to formulations containing micronized CCI-779 and Azrolan describes methods of treating cardiovascular disease with rapamycin which may include CCI-779, and includes general information regarding excipients useful in the formulation is provided. There is no motivation to combine Azrolan with copending Application 10/930,487. In contrast, the present application contains claims to non-miconized CCI-779 with the specified exdipients.

The Examiner disagrees because Azrolan et al. teaches oral formulations of 42-ester with 3-hydroxy-2-(hydroxymethyl)-2-methylpropionic acid (see claim 5 and page 4, column 1, paragraph 26, lines 1-2), which reads on all forms of CCI-779. Additionally, the presently rejected claims do not limit the form of CCI-779, thus the claims read on all forms of the compound. The Applicant's specified excipents are rendered obvious as discussed in the previous office action and above.

Claims 1, 2, 4, and 6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 12-16 and 19 of copending Application No. 10/626,943

The Applicant argues that the copending application no. 10/626,943 contains claims drawn to parenteral formulations comprising CCI-779. In contrast, the present application contains claims to composition of CCI-779 with the specified excipents. Applicants believe that the claims of the two applications are non-obvious over each other.

The Examiner disagrees because one skilled in the art can formulate compositions into different forms of administration such as oral, parental, or injection based on common knowledge within the art. The main difference in the composition

claims of the presently rejected claims and co-pending application 10/626,943 is the form of administration. The Applicant's specified excipents are rendered obvious as discussed in the previous office action and above.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

No claims are allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kendra D. Carter whose telephone number is (571) 272-9034. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on (571) 272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KDC

SREENI PADMANABHAN SUPERVISORY PATENT EXAMINER